

Amendments to the Claims

The listing of claims will replace the previous version, and the listing of claims:

Listing of Claims

1. (currently amended) An axial gap electronic motor ~~including~~ comprising a stator and a rotor each formed approximately in a disc shape and disposed opposingly at a same rotary shaft with a predetermined gap,

wherein said stator comprises a plurality of pole members annularly connected, ~~and~~ each of said pole members ~~comprises~~ having a stator iron core, and an insulator for winding a coil, said insulator having connecting means for connecting adjacent pole members.

2. (currently amended) ~~The~~ An axial gap electronic motor ~~according to claim 1,~~ comprising a stator and a rotor each formed approximately in a disc shape and disposed opposingly at a same rotary shaft with a predetermined gap,

wherein said stator comprises a plurality of pole members annularly connected, and

wherein each of said pole members has a stator iron core, and a bobbin-shaped insulator including a pair of left and right flanges for winding a coil ~~is integrally formed at said~~ and formed around said stator iron core, and said insulator is provided with connecting means for connecting each of said adjacent pole members.

3. (currently amended) The axial gap electronic motor according to claim 2, wherein said flanges are formed to be larger than winding width of ~~a~~ the coil ~~which is~~ wound around said insulator.

4. (currently amended) The axial gap electronic motor according to claim ~~1~~ 2, wherein said connecting means includes at least one of a rotatable first engaging member and a rotatable second engaging member, said first

engaging member comprising a combination of a boss and a bearing recessed portion ~~for it, which are~~ therefor, said boss and recessed portion being provided at outer periphery sides, seen from a center of said stator, on opposing surfaces of said flanges of said adjacent pole members, ~~is included as said connecting means~~ and said second engaging member comprising a combination of a boss and a bearing recessed portion therefor, said boss and bearing recessed portion of the second engaging member being provided at inner circumferential sides, seen from the center of said stator, on the opposing surfaces of said flanges of said adjacent pole members.

5-6. (cancelled)

7. (currently amended) The axial gap electronic motor according to claim ~~1~~ 2, wherein said insulator ~~comprises a single insulating material~~ is integrally formed with said iron core.

8. (currently amended) The axial gap electronic motor according to claim ~~1~~ 2, wherein said insulator comprises at least two separate division parts, and ~~each of said division parts is formed to~~ sandwich said stator iron core ~~with each other.~~

9. (currently amended) The axial gap electronic motor according to claim ~~1~~ 2, wherein a connecting wire support member for supporting a connecting wire to be laid between the pole members is integrally provided in at least one of said flanges in each of said pole members.

10. (currently amended) The axial gap electronic motor according to claim 9, wherein said connecting wire support member is provided to jut out to a side of said flange.

11. (previously presented) The axial gap electronic motor according to claim 9, wherein a connecting wire housing groove for catching said

connecting wire is formed on said connecting wire support member.

12. (original) The axial gap electronic motor according to claim 11, wherein in at least part of said connecting wire housing groove, groove width of an opening is formed to be narrower than groove width of an inside so that said connecting wire cannot easily fall off.

13. (currently amended) The axial gap electronic motor according to claim 11, wherein said connecting wire housing groove ~~comprises a groove with~~ has an approximately C-shaped section.

14. (currently amended) The axial gap electronic motor according to claim 11, wherein a number of said connecting wire housing grooves, ~~which are provided,~~ corresponds to at least a number of phases.

15. (previously presented) The axial gap motor according to claim 11, wherein in a case in which at least two of said connecting wire housing grooves are provided at said connecting wire support member, one of the connecting wire housing grooves is disposed at an upper surface side of said connecting wire support member and the other connecting wire housing groove is disposed at a lower surface side of said connecting wire support member.

16. (currently amended) The axial gap electronic motor according to claim 9, wherein said connecting wire support member is provided with a twining portion around which a winding start end and a winding terminal end of a the coil ~~that is~~ wound around said stator iron core ~~and a winding terminal end of the coil~~ are wound.

17. (currently amended) The axial gap electronic motor according to claim 16, wherein said twining portion has a first rod portion at a side of the winding start end of said coil and a second rod portion at a side of the winding terminal end of said coil, and a stopper with

an extended diameter for preventing the coil from falling off is formed at a head portion of each of said rod portions.

18. (currently amended) The axial gap electronic motor according to claim 16, wherein in a case in which at least two of said twining portions are provided at said connecting wire support member, ~~one and the other of them~~ said twining portions are disposed at positions with different heights.

19. (currently amended) The axial gap electronic motor according to claim 17, wherein coil catching grooves, ~~through which~~ for passing a part of the coil passing from the first rod portion at the side of the winding start end of said coil to an inside of said insulator and a part of the coil passing from the inside of said insulator to the second rod portion at the side of the winding terminal end of said coil ~~are passed~~, are formed at an upper edge of said flange.

20. (currently amended) The axial gap electronic motor according to claim ~~2~~ 1, wherein said stator iron core is provided with a skew inclined at a predetermined angle with respect to a rotating direction of said ~~rotors~~ rotor.

21-27. (cancelled)

28. (currently amended) The axial gap electronic motor according to claim 1, wherein resin introducing passages for enhancing flow of a resin when the pole members are integrally connected to each other ~~and integrated by a synthetic~~ the resin material, are provided at part of said insulator.

29. (currently amended) The axial gap electronic motor according to claim 1, wherein a pair of ~~said~~ rotors ~~are~~ is provided at a left and a right with said stator therebetween.

30. (currently amended) The axial gap electronic motor according to claim 2 1, wherein ~~in a case in which said pole member includes a stator iron core,~~ said stator iron core has a pair of tooth portions opposing said ~~rotors~~ rotor and a winding portion ~~which is~~ formed between said tooth portions ~~and around which~~ for winding said coil ~~is wound therearound,~~ and said tooth portions have same projection areas to a left and a right lamination areas with said winding portion ~~between them~~ therebetween.

31. (new) An axial gap electronic motor comprising a stator and a rotor each formed approximately in a disc shape and disposed opposingly at a same rotary shaft with a predetermined gap,

wherein said stator comprises a plurality of pole members annularly connected, and each of said pole members comprises connecting means for connecting adjacent pole members, and

wherein each of said pole members has a stator iron core, a bobbin-shaped insulator including a pair of integrally formed left and right flanges for winding a coil around said pole of stator iron core, and said insulator is provided with said connecting means for connecting each of said adjacent pole members.